SECRET

	Approved For Relea	E 2002/06/47: CIA HDF78B04747A0	00700010004-0
•		D CATALOG FORM	29 October 1965
	Gems Development (Continuation)	which will permit an objection	o further develop a system ective and meaningful assess- perational reconnaissance
25X1A			:
	Manufacturer	6. TYPE OF CONTRACT	
	7. FUNDS	CPFF	9. BUDGET PROJECT NO.
25X1A	FY 1966 ·	5500 - 8544 -66	NP-IA-7
	FY 1967 \$	10. EFFECTIVE CONTRACT DATE (Begin - end)	A.A Confidential
	FY 1968 \$ None	December 1965 - June 1967	T Unclassified W Unclassified
	12. RESPONSIBLE DIRECTORATE/OFFI	CE/PROJECT OFFICER TELEPHONE EXTENSION	
25X1A	There is a requirement for an improved technique to objectively evaluate the image quality of the photography produced by each reconnaissance mission.		
•	14. TYPE OF WORK TO BE DONE		
	Applied Research		
,ı '~	15. CATEGORIES OF EFFORT		
:	MAJOR CATEGORY SUB-CATEGORIES -		
i		·	
	Image Quality Analysis		
25X1A	16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM. EQUIPMENT. ETC. 1. Technical Reports on: (a) Psychometrical tests; (b) Refinement of existing. Gems Technique; (c) Gems set specifications; (d) Alternate Gems Technique; (e) Design and specifications for Gems Viewer with a cost estimate; and (f) A comprehensive project summary report. (Contd) 17. Suppositing OR Related Contracts (Agency & Other)/COORDINATION "GEMS INVESTIGATION"; Interservice Image Quality Evaluation Committee; Photo working panel 25X1A		
	recommendations.		
	Image quality evaluathe development of an obtotally successful. This permitting comparison of Measuring Samples). The carefully controlled images	tion is required for every miss jective standard of judging ima s project is an attempt to dever the photography to a matrix of se GEMS are a peries of simulating quality parameters. The probability	ion. However, to date, ge quality has not been lop a workable standard by GEMS (Graded Estimated
	19. APPROVED BY AND DATE OFFICE DEPUT	Y DIRECTOR	
Declass	Review by NIMA/DOD	Y DIRECTOR DDC1	00700010004 0
	FORM COOK	se 2002/06/17 : CIA-RDP78B04747A00	JU1 UUU 1UUU4-U

Approved For Release 2002/06/17 : CIA-RDP78B04747A000700010004-0

CONTINUED ...

16.

- 2. A Gems Matrix (1000-1500 Gems) with appropriate documentation.
- 18. used are haze and/or exposure, modulation transfer function, granularity, scale factor and scene content. There probably will be between 1000-1500 Gems in a set. It is anticipated that this technique, if successful, could be developed into a semi-automated image evaluation procedure.